



SEQUENCE LISTING

<110> Fletcher, J.
Prince-Cohane, K.
Mehta, S.
Slusarewicz, P.
Andjelic, S.
Barber, B.

<120> IMPROVED HEAT SHOCK PROTEIN-BASED
VACCINES AND IMMUNOTHERAPIES

<130> 8449-406-999

<140> 10/820,067

<141> 2004-04-08

<150> 60/462,469

<151> 2003-04-11

<150> 60/463,746

<151> 2003-04-18

<150> 60/503,417

<151> 2003-09-16

<160> 926

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<221> VARIANT

<222> 2

<223> Xaa = Leu or Met

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<221> VARIANT

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<223> Xaa = Val or Ile or Leu or Thr

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<221> VARIANT
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 <223> motif in heptamiric region recognized by heat
 shock protein

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 <222> 2
 <223> Xaa = Trp or any amino acid

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 <222> 1, 3, 5, 7
 <223> Xaa = hydrophobic amino acid residues

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shock protein

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<221> VARIANT

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<223> Xaa = Trp or any amino acid

<220>

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<222> 1, 3, 5, 7,

<223> Xaa = hydrophobic amino acid residue, particularly
tryptophan, leucine or phenylalanine

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<222> 4, 6

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<213> Artificial Sequence

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<223> peptide linker in between antigenic domain and
heat shock binding domain of hybrid antigen

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<223> In the order of preference, with Ala the most preferred

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<213> Lymphocytic Choriomeningitis Virus (LCMV)

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<213> Measles Virus

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Ser Pro Gly Arg Ser Phe Ser Tyr Phe
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Tyr Pro Ala Leu Gly Leu His Glu Phe
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<211> 10

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<213> Polio Virus

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Phe Tyr Asp Gly Phe Ser Lys Val Pro Leu
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 <213> Mouse Cytomegalovirus (MCMV)
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 Tyr Pro His Phe Met Pro Thr Asn Leu
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 <213> Coronavirus
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 Ala Pro Thr Ala Gly Ala Phe Phe Phe
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Asp Tyr Ala Thr Leu Gly Val Gly Val
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 Arg Ala His Tyr Asn Ile Val Thr Phe
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 Leu Leu Phe Gly Tyr Pro Val Tyr Val
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 His Gln Ala Ile Ser Pro Arg Thr Leu
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Gly Arg Ala Phe Val Thr Ile Gly Lys
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 Ile Leu Lys Glu Pro Val His Gly Val
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<213> Listeria innocua

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Lys Tyr Gly Val Ser Val Gln Asp Ile
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<213> Yersinia pseudotuberculosis

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1 5

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<213> E.coli

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Thr Pro His Pro Ala Arg Ile Gly Leu
1 5

<210> 107
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 Ser Tyr Ile Pro Ser Ala Glu Lys Ile
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 Lys Pro Lys Asp Glu Leu Asp Tyr
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 Asp Glu Leu Asp Tyr Glu Asn Asp Ile
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 <213> *Homo sapiens*
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 Phe Glu Gln Asn Thr Ala Gln Ala
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 <213> *Homo sapiens*

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Glu Val Asp Pro Ile Gly His Leu Tyr
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<223> Heat shock protein binding domain

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<223> Heat shock protein binding domain

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Leu Thr Thr Pro Phe Ser Ser Gly
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Gly Val Pro Leu Thr Met Asp Gly
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Lys Leu Pro Thr Val Leu Arg
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Thr Val Gln His Val Ala Phe
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Lys Pro Pro Leu Phe Gln Ile
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1 5 10 15
Tyr Leu Lys Gln Ala Thr Ala Lys
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 Trp residue

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Trp residue

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Trp residue

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Trp residue

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Trp residue

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Trp residue

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1 5

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 Trp residue

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 Trp residue

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 1 5

<210> 639
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 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

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 1 5

<210> 640
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 <213> Artificial Sequence

<220>
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 Trp residue

<400> 640
 Leu Ser Gln His Thr Asn Gly Trp
 1 5

<210> 641
 <211> 8

<212> PRT
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 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

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 Asn Arg Leu Leu Leu Thr Gly Trp
 1 5

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 <211> 8
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 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

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 Tyr Pro Leu Trp Val Ile Gly Trp
 1 5

 <210> 643
 <211> 8
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 <220>
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 Trp residue

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 Leu Leu Ile Ile Asp Arg Gly Trp
 1 5

 <210> 644
 <211> 8
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 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 644
 Arg Val Ile Ser Leu Gln Gly Trp
 1 5

 <210> 645
 <211> 8
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 <220>
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Trp residue

<400> 645

Glu Val Ser Arg Glu Asp Gly Trp
1 5

<210> 646

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 646

Ser Ile Leu Arg Ser Thr Gly Trp
1 5

<210> 647

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 647

Pro Gly Leu Val Trp Leu Gly Trp
1 5

<210> 648

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 648

Val Lys Lys Leu Tyr Ile Gly Trp
1 5

<210> 649

<211> 8

<212> PRT

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<220>

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Trp residue

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1 5

<210> 650
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 Trp residue

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 1 5

 <210> 651
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 Trp residue

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 1 5

 <210> 652
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 <220>
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 Trp residue

 <400> 652
 Ala Ser Leu Cys Pro Thr Gly Trp
 1 5

 <210> 653
 <211> 8
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 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 653
 Asp Val Pro Gly Leu Arg Gly Trp
 1 5

 <210> 654
 <211> 8
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<213> Artificial Sequence

<220>

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Trp residue

<400> 654

Arg His Arg Glu Val Gln Gly Trp
1 5

<210> 655

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

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Trp residue

<400> 655

Leu Ala Arg Lys Arg Ser Gly Trp
1 5

<210> 656

<211> 8

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<220>

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Trp residue

<400> 656

Ser Val Leu Asp His Val Gly Trp
1 5

<210> 657

<211> 8

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<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 657

Asn Leu Leu Arg Arg Ala Gly Trp
1 5

<210> 658

<211> 8

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<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 658
Ser Gly Ile Ser Ala Trp Gly Trp
1 5

<210> 659
<211> 8
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<220>
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Trp residue

<400> 659
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1 5

<210> 660
<211> 8
<212> PRT
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<220>
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Trp residue

<400> 660
Lys Leu Phe Leu Pro Leu Gly Trp
1 5

<210> 661
<211> 8
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<220>
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Trp residue

<400> 661
Thr Pro Thr Leu Ser Asp Gly Trp
1 5

<210> 662
<211> 8
<212> PRT
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<220>
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Trp residue

<400> 662
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1 5

<210> 663
 <211> 8
 <212> PRT
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 <220>
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 Trp residue

 <400> 663
 Leu Leu Leu Leu Ser Arg Gly Trp
 1 5

 <210> 664
 <211> 8
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 <220>
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 Trp residue

 <400> 664
 Leu Leu Arg Val Arg Ser Gly Trp
 1 5

 <210> 665
 <211> 8
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 <220>
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 Trp residue

 <400> 665
 Glu Arg Arg Ser Arg Gly Gly Trp
 1 5

 <210> 666
 <211> 8
 <212> PRT
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 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <400> 666
 Arg Met Leu Gln Leu Ala Gly Trp
 1 5

 <210> 667
 <211> 8
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<220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

<400> 667
 Arg Gly Trp Ala Asn Ser Gly Trp
 1 5

<210> 668
 <211> 8
 <212> PRT
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<220>
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 Trp residue

<400> 668
 Arg Pro Phe Tyr Ser Tyr Gly Trp
 1 5

<210> 669
 <211> 8
 <212> PRT
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<220>
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 Trp residue

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 Ser Ser Ser Trp Asn Ala Gly Trp
 1 5

<210> 670
 <211> 8
 <212> PRT
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<220>
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 Trp residue

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 Leu Gly His Leu Glu Glu Gly Trp
 1 5

<210> 671
 <211> 8
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<220>
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 Trp residue

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 1 5

<210> 672
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 <212> PRT
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<220>
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 Phe Tyr Gln Leu Ala Leu Thr
 1 5

<210> 673
 <211> 8
 <212> PRT
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<220>
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 Phe Tyr Gln Leu Ala Leu Thr Trp
 1 5

<210> 674
 <211> 8
 <212> PRT
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<220>
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<400> 674
 Arg Lys Leu Phe Phe Asn Leu Arg
 1 5

<210> 675
 <211> 9
 <212> PRT
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<220>
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<400> 675
 Arg Lys Leu Phe Phe Asn Leu Arg Trp
 1 5

<210> 676
 <211> 5
 <212> PRT
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<220>
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 <400> 676
 Lys Phe Glu Arg Gln
 1 5

 <210> 677
 <211> 7
 <212> PRT
 <213> Artificial Sequence

 <220>
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 <400> 677
 Asn Ile Val Arg Lys Lys Lys
 1 5

 <210> 678
 <211> 8
 <212> PRT
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 <220>
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 Arg Gly Tyr Val Tyr Gln Gly Leu
 1 5

 <210> 679
 <211> 8
 <212> PRT
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 Trp residue

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 Asn Leu Leu Arg Leu Thr Gly Trp
 1 5

 <210> 680
 <211> 8
 <212> PRT
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 <220>
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 Trp residue

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 1 5

<210> 681
 <211> 9
 <212> PRT
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 <220>
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 Trp residue

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 1 5

 <210> 682
 <211> 7
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 Trp residue

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 1 5

 <210> 683
 <211> 7
 <212> PRT
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 <220>
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 Trp residue

 <400> 683
 Leu Arg Arg Trp Ser Leu Trp
 1 5

 <210> 684
 <211> 7
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 <220>
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 Trp residue

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 Lys Trp Val His Leu Phe Trp
 1 5

 <210> 685
 <211> 7

<212> PRT
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 <220>
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 Trp residue

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 1 5

 <210> 686
 <211> 7
 <212> PRT
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 <220>
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 Trp residue

 <400> 686
 Ala Arg Leu Leu Leu Thr Trp
 1 5

 <210> 687
 <211> 7
 <212> PRT
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 <220>
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 Trp residue

 <400> 687
 Asn Ala Leu Leu Leu Thr Trp
 1 5

 <210> 688
 <211> 7
 <212> PRT
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 <220>
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 Trp residue

 <400> 688
 Asn Arg Leu Ala Leu Thr Trp
 1 5

 <210> 689
 <211> 7
 <212> PRT
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 <220>
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Trp residue

<400> 689

Asn Leu Leu Arg Leu Thr Trp
1 5

<210> 690

<211> 7

<212> PRT

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<220>

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Trp residue

<400> 690

Asn Arg Leu Trp Leu Thr Trp
1 5

<210> 691

<211> 7

<212> PRT

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<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 691

Asn Arg Leu Leu Leu Ala Trp
1 5

<210> 692

<211> 8

<212> PRT

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<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 692

Phe Tyr Gln Leu Ala Leu Thr Trp
1 5

<210> 693

<211> 8

<212> PRT

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<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 693

Phe Tyr Gln Leu Ala Leu Thr Trp

1 5

<210> 694
 <211> 9
 <212> PRT
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<220>
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 Trp residue

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 1 5

<210> 695
 <211> 9
 <212> PRT
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<220>
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 Trp residue

<400> 695
 Arg Lys Leu Phe Phe Asn Leu Arg Trp
 1 5

<210> 696
 <211> 6
 <212> PRT
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<220>
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 Trp residue

<400> 696
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 1 5

<210> 697
 <211> 8
 <212> PRT
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<220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

<400> 697
 Asn Ile Val Arg Lys Lys Trp
 1 5

<210> 698

<211> 9
 <212> PRT
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 <220>
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 Trp residue

 <400> 698
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 1 5

 <210> 699
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 <220>
 <223> Linker for forming hybrid antigen

 <400> 699
 Phe Phe Arg Lys
 1

 <210> 700
 <211> 4
 <212> PRT
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 <220>
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 <400> 700
 Ala Lys Val Leu
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 <210> 701
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 <212> PRT
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 <400> 701
 Phe Arg Lys Asn
 1

 <210> 702
 <211> 5
 <212> PRT
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 <220>
 <223> Linker for forming hybrid antigen

 <400> 702

Phe Phe Arg Lys Asn
1 5

<210> 703
<211> 8
<212> PRT
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<220>
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"Trp" residue

<400> 703
Tyr Thr Leu Val Gln Pro Leu Trp
1 5

<210> 704
<211> 8
<212> PRT
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<220>
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"Trp" residue

<400> 704
Thr Pro Asp Ile Thr Pro Lys Trp
1 5

<210> 705
<211> 8
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<220>
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"Trp" residue

<400> 705
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1 5

<210> 706
<211> 8
<212> PRT
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"Trp" residue

<400> 706
Asp Arg Thr His Ala Thr Ser Trp
1 5

<210> 707

<211> 8
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 <220>
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 "Trp" residue

 <400> 707
 Met Ser Thr Thr Phe Tyr Ser Trp
 1 5

 <210> 708
 <211> 8
 <212> PRT
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 <220>
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 "Trp" residue

 <400> 708
 Tyr Gln His Ala Val Gln Thr Trp
 1 5

 <210> 709
 <211> 8
 <212> PRT
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 <220>
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 "Trp" residue

 <400> 709
 Phe Pro Phe Ser Ala Ser Thr Trp
 1 5

 <210> 710
 <211> 8
 <212> PRT
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 <220>
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 "Trp" residue

 <400> 710
 Ser Ser Phe Pro Pro Leu Asp Trp
 1 5

 <210> 711
 <211> 8
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 <220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 711

Met Ala Pro Ser Pro Pro His Trp
1 5

<210> 712

<211> 8

<212> PRT

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<220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 712

Ser Ser Phe Pro Asp Leu Leu Trp
1 5

<210> 713

<211> 8

<212> PRT

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<220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 713

His Ser Tyr Asn Arg Leu Pro Trp
1 5

<210> 714

<211> 8

<212> PRT

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<220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 714

His Leu Thr His Ser Gln Arg Trp
1 5

<210> 715

<211> 8

<212> PRT

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<220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 715

Gln Ala Ala Gln Ser Arg Ser Trp

1 5

<210> 716
 <211> 8
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<220>
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 "Trp" residue

<400> 716
 Phe Ala Thr His His Ile Gly Trp
 1 5

<210> 717
 <211> 8
 <212> PRT
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<220>
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 "Trp" residue

<400> 717
 Ser Met Pro Glu Pro Leu Ile Trp
 1 5

<210> 718
 <211> 8
 <212> PRT
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<220>
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 "Trp" residue

<400> 718
 Ile Pro Arg Tyr His Leu Ile Trp
 1 5

<210> 719
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<220>
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 "Trp" residue

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 1 5

<210> 720


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<211> 8
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<220>
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      "Trp" residue

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 1               5

<210> 721
<211> 8
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      "Trp" residue

<400> 721
Leu Pro His Trp Leu Leu Ile Trp
 1               5

<210> 722
<211> 8
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<220>
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      "Trp" residue

<400> 722
Ala Ser Ala Gly Tyr Gln Ile Trp
 1               5

<210> 723
<211> 8
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      "Trp" residue

<400> 723
Val Thr Pro Lys Thr Gly Ser Trp
 1               5

<210> 724
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<220>
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"Trp" residue

<400> 724
Glu His Pro Met Pro Val Leu Trp
1 5

<210> 725
<211> 8
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<220>
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"Trp" residue

<400> 725
Val Ser Ser Phe Val Thr Ser Trp
1 5

<210> 726
<211> 8
<212> PRT
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<220>
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"Trp" residue

<400> 726
Ser Thr His Phe Thr Trp Pro Trp
1 5

<210> 727
<211> 8
<212> PRT
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"Trp" residue

<400> 727
Gly Gln Trp Trp Ser Pro Asp Trp
1 5

<210> 728
<211> 8
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<220>
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"Trp" residue

<400> 728

Gly Pro Pro His Gln Asp Ser Trp
1 5

<210> 729
<211> 8
<212> PRT
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<220>
<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 729
Asn Thr Leu Pro Ser Thr Ile Trp
1 5

<210> 730
<211> 8
<212> PRT
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<220>
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"Trp" residue

<400> 730
His Gln Pro Ser Arg Trp Val Trp
1 5

<210> 731
<211> 8
<212> PRT
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<220>
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"Trp" residue

<400> 731
Tyr Gly Asn Pro Leu Gln Pro Trp
1 5

<210> 732
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
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"Trp" residue

<400> 732
Phe His Trp Trp Trp Gln Pro Trp
1 5

<210> 733
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 <212> PRT
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 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 733
 Ile Thr Leu Lys Tyr Pro Leu Trp
 1 5

 <210> 734
 <211> 8
 <212> PRT
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 <220>
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 "Trp" residue

 <400> 734
 Phe His Trp Pro Trp Leu Phe Trp
 1 5

 <210> 735
 <211> 8
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 <220>
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 "Trp" residue

 <400> 735
 Thr Ala Gln Asp Ser Thr Gly Trp
 1 5

 <210> 736
 <211> 8
 <212> PRT
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 <220>
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 "Trp" residue

 <400> 736
 Phe His Trp Trp Trp Gln Pro Trp
 1 5

 <210> 737
 <211> 8
 <212> PRT
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<220>
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 "Trp" residue

<400> 737
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 1 5

<210> 738
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

<400> 738
 Glu Pro Phe Phe Arg Met Gln Trp
 1 5

<210> 739
 <211> 8
 <212> PRT
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<220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

<400> 739
 Thr Trp Trp Leu Asn Tyr Arg Trp
 1 5

<210> 740
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 <212> PRT
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<220>
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 "Trp" residue

<400> 740
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 1 5

<210> 741
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<220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

<400> 741

Gln Pro Ser His Leu Arg Trp Trp
1 5

<210> 742
<211> 8
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"Trp" residue

<400> 742
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1 5

<210> 743
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"Trp" residue

<400> 743
Phe His Trp Trp Trp Gln Pro Trp
1 5

<210> 744
<211> 8
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<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 744
His Pro Ser Asn Gln Ala Ser Trp
1 5

<210> 745
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 745
Asn Ser Ala Pro Arg Pro Val Trp
1 5

<210> 746

<211> 8
 <212> PRT
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 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 746
 Gln Leu Trp Ser Ile Tyr Pro Trp

 1 5

 <210> 747
 <211> 8
 <212> PRT
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 <220>
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 "Trp" residue

 <400> 747
 Ser Trp Pro Phe Phe Asp Leu Trp

 1 5

 <210> 748
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 "Trp" residue

 <400> 748
 Asp Thr Thr Leu Pro Leu His Trp

 1 5

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 "Trp" residue

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 Trp His Trp Gln Met Leu Trp Trp

 1 5

 <210> 750
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 "Trp" residue

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 Asp Ser Phe Arg Thr Pro Val Trp
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 "Trp" residue

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 Thr Ser Pro Leu Ser Leu Leu Trp
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 "Trp" residue

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 Ala Tyr Asn Tyr Val Ser Asp Trp
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 <210> 753
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 "Trp" residue

 <400> 753
 Arg Pro Leu His Asp Pro Met Trp
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 <210> 754
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 "Trp" residue

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Trp Pro Ser Thr Thr Leu Phe Trp
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<210> 755

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"Trp" residue

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Ala Thr Leu Glu Pro Val Arg Trp
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<210> 756

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"Trp" residue

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Ser Met Thr Val Leu Arg Pro Trp
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<210> 757

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"Trp" residue

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Gln Ile Gly Ala Pro Ser Trp Trp
1 5

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"Trp" residue

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Ala Pro Asp Leu Tyr Val Pro Trp
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<210> 759

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 "Trp" residue

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 Arg Met Pro Pro Leu Leu Pro Trp
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 "Trp" residue

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 Ala Lys Ala Thr Pro Glu His Trp
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 <210> 761
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 "Trp" residue

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 "Trp" residue

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"Trp" residue

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"Trp" residue

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"Trp" residue

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"Trp" residue

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"Trp" residue

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Gly Thr Ala His Phe Met Tyr Trp

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 "Trp" residue

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 "Trp" residue

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 "Trp" residue

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 "Trp" residue

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 "Trp" residue

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 "Trp" residue

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 "Trp" residue

 <400> 774
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 "Trp" residue

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"Trp" residue

<400> 776

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<210> 777

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<400> 777

Glu Gly Pro Leu Arg Ser Pro Trp
1 5

<210> 778

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"Trp" residue

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Thr Thr Tyr His Ala Leu Gly Trp
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<210> 779

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"Trp" residue

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Val Ser Ile Gly His Pro Ser Trp
1 5

<210> 780

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"Trp" residue

<400> 780

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<210> 781
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 <210> 782
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 "Trp" residue

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 <210> 783
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 "Trp" residue

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 <210> 784
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 "Trp" residue

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 <210> 785
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<212> PRT
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 "Trp" residue

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 Ser Leu Trp Thr Arg Leu Pro Trp
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 <210> 787
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 <210> 788
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 "Trp" residue

 <400> 788
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 <210> 789
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"Trp" residue

<400> 789

His Asn Leu His Pro Asn Arg Trp
1 5

<210> 790

<211> 8

<212> PRT

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"Trp" residue

<400> 790

Tyr Thr Thr His Arg Trp Leu Trp
1 5

<210> 791

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 791

Ala Val Thr Ala Ala Ile Val Trp
1 5

<210> 792

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 792

Thr Leu Met His Asp Arg Val Trp
1 5

<210> 793

<211> 8

<212> PRT

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"Trp" residue

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<210> 794

<211> 8

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"Trp" residue

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Phe Thr Asn Gln Gln Tyr His Trp

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<210> 795

<211> 8

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"Trp" residue

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Ser His Val Pro Ser Met Ala Trp

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<210> 796

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"Trp" residue

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His Thr Thr Val Tyr Gly Ala Trp

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<210> 797

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"Trp" residue

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Thr Glu Thr Pro Tyr Pro Thr Trp

1

5

<210> 798

<211> 8
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 "Trp" residue

 <400> 798
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 1 5

 <210> 799
 <211> 8
 <212> PRT
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 "Trp" residue

 <400> 799
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 <210> 800
 <211> 8
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 "Trp" residue

 <400> 800
 Lys Leu Pro Thr Val Leu Arg Trp
 1 5

 <210> 801
 <211> 8
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 "Trp" residue

 <400> 801
 Cys Arg Phe His Gly Asn Arg Trp
 1 5

 <210> 802
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"Trp" residue

<400> 802

Tyr Thr Arg Asp Phe Glu Ala Trp
1 5

<210> 803

<211> 8

<212> PRT

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<220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 803

Ser Ser Ala Ala Gly Pro Arg Trp
1 5

<210> 804

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 804

Ser Leu Ile Gln Tyr Ser Arg Trp
1 5

<210> 805

<211> 8

<212> PRT

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"Trp" residue

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<221> VARIANT

<222> 7

<223> Xaa = Any Amino Acid

<400> 805

Asp Ala Leu Met Trp Pro Xaa Trp
1 5

<210> 806

<211> 8

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<220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

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<221> VARIANT

<222> 3

<223> Xaa = Any Amino Acid

<400> 806

Ser Ser Xaa Ser Leu Tyr Ile Trp
1 5

<210> 807

<211> 8

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"Trp" residue

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Phe Asn Thr Ser Thr Arg Thr Trp
1 5

<210> 808

<211> 8

<212> PRT

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"Trp" residue

<400> 808

Thr Val Gln His Val Ala Phe Trp
1 5

<210> 809

<211> 8

<212> PRT

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<220>

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"Trp" residue

<400> 809

Asp Tyr Ser Phe Pro Pro Leu Trp
1 5

<210> 810

<211> 8

<212> PRT

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<220>

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"Trp" residue

<400> 810

Val Gly Ser Met Glu Ser Leu Trp
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<210> 811

<211> 8

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"Trp" residue

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Phe Xaa Pro Met Ile Xaa Ser Trp
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<210> 812

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"Trp" residue

<400> 812

Ala Pro Pro Arg Val Thr Met Trp
1 5

<210> 813

<211> 8

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"Trp" residue

<400> 813

Ile Ala Thr Lys Thr Pro Lys Trp
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<210> 814

<211> 8

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"Trp" residue

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Lys Pro Pro Leu Phe Gln Ile Trp
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<210> 815
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"Trp" residue

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Tyr His Thr Ala His Asn Met Trp
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<210> 816
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"Trp" residue

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Ser Tyr Ile Gln Ala Thr His Trp
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<210> 817
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"Trp" residue

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Ser Ser Phe Ala Thr Phe Leu Trp
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<210> 818
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"Trp" residue

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Thr Thr Pro Pro Asn Phe Ala Trp

1 5

<210> 819
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 "Trp" residue

<400> 819
 Ile Ser Leu Asp Pro Arg Met Trp
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<210> 820
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 "Trp" residue

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<210> 821
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 "Trp" residue

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<210> 822
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 "Trp" residue

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<210> 823
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 "Trp" residue

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 Ser His Phe Glu Gln Leu Leu Trp
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 "Trp" residue

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 Thr Pro Gln Leu His His Gly Trp
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 <210> 825
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 "Trp" residue

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 Ala Pro Leu Asp Arg Ile Thr Trp
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 <210> 826
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 "Trp" residue

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"Trp" residue

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Ser Trp Ile Gln Thr Phe Met Trp
1 5

<210> 828

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"Trp" residue

<400> 828

Asn Thr Trp Pro His Met Tyr Trp
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<210> 829

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"Trp" residue

<400> 829

Glu Pro Leu Pro Thr Thr Leu Trp
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<210> 830

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<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 830

His Gly Pro His Leu Phe Asn Trp
1 5

<210> 831

<211> 8

<212> PRT

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<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 831

Tyr Leu Asn Ser Thr Leu Ala Trp
1 5

<210> 832
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 "Trp" residue

 <400> 832
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 <210> 833
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 "Trp" residue

 <400> 833
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 "Trp" residue

 <400> 834
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 <210> 835
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 <210> 836
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 "Trp" residue

<400> 836
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 "Trp" residue

<400> 837
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 "Trp" residue

<400> 838
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<210> 839
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 "Trp" residue

<400> 839
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<210> 840
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 "Trp" residue

<400> 840
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<210> 841
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 "Trp" residue

<400> 841
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<210> 842
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 "Trp" residue

<400> 842
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<210> 843
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 "Trp" residue

<400> 843
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<210> 844
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 "Trp" residue

<400> 844
 Gly Leu Ala Thr Val Lys Ser Trp
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<210> 845
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 "Trp" residue

 <400> 845
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 "Trp" residue

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 <210> 847
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 "Trp" residue

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 <210> 848
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 "Trp" residue

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 <210> 849
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 "Trp" residue

<400> 849
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 "Trp" residue

<400> 850
 Leu Pro Thr Arg Thr Pro Ala Trp
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<210> 851
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 "Trp" residue

<400> 851
 Ala Ser Phe Asp Leu Leu Ile Trp
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<210> 852
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 "Trp" residue

<400> 852
 Arg Met Asn Thr Glu Pro Pro Trp
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<210> 853
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 "Trp" residue

<400> 853

Lys Met Thr Pro Leu Thr Thr Trp
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<210> 854

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"Trp" residue

<400> 854

Ala Asn Ala Thr Pro Leu Leu Trp
1 5

<210> 855

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 855

Thr Ile Trp Pro Pro Pro Val Trp
1 5

<210> 856

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 856

Gln Thr Lys Val Met Thr Thr Trp
1 5

<210> 857

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with terminal
"Trp" residue

<400> 857

Asn His Ala Val Phe Ala Ser Trp
1 5

<210> 858
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <220>
 <221> VARIANT
 <222> 5
 <223> Xaa = Any Amino Acid

 <400> 858
 Leu His Ala Ala Xaa Thr Ser Trp
 1 5

 <210> 859
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 859
 Thr Trp Gln Pro Tyr Phe His Trp
 1 5

 <210> 860
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 860
 Ala Pro Leu Ala Leu His Ala Trp
 1 5

 <210> 861
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 861
 Thr Ala His Asp Leu Thr Val Trp
 1 5

<210> 862
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 862
 Asn Met Thr Asn Met Leu Thr Trp
 1 5

 <210> 863
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 863
 Gly Ser Gly Leu Ser Gln Asp Trp
 1 5

 <210> 864
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 864
 Thr Pro Ile Lys Thr Ile Tyr Trp
 1 5

 <210> 865
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

 <400> 865
 Ser His Leu Tyr Arg Ser Ser Trp
 1 5

 <210> 866
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain with terminal
 "Trp" residue

<400> 866
 His Gly Gln Ala Trp Gln Phe Trp
 1 5

<210> 867
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 867
 Asn Leu Leu Arg Leu Thr Gly Trp
 1 5

<210> 868
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 868
 Ser Ile Ile Asn Phe Glu Lys Leu
 1 5

<210> 869
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock-protein binding motif to form hybrid antigen

<400> 869
 His Trp Asp Phe Ala Trp Pro Trp
 1 5

<210> 870
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock-protein binding motif to form hybrid antigen

<400> 870
 Asn Leu Leu Arg Leu Thr Gly Trp
 1 5

<210> 871
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock-protein binding motif to form hybrid antigen

<400> 871
Phe Tyr Gln Leu Ala Leu Thr Trp
1 5

<210> 872
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock-protein binding motif to form hybrid antigen

<400> 872
Arg Lys Leu Phe Phe Asn Leu Arg Trp
1 5

<210> 873
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock-protein binding motif to form hybrid antigen

<400> 873
Ala Leu Phe Asp Ile Glu Ser Lys Val
1 5

<210> 874
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock-protein binding motif to form hybrid antigen

<400> 874
Ile Met Asp Gln Val Pro Phe Ser Val
1 5

<210> 875
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
 <223> Heat shock-protein binding motif to form hybrid antigen

 <400> 875
 Tyr Met Asp Gly Thr Met Ser Gln Val
 1 5

 <210> 876
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock-protein binding motif to form hybrid antigen

 <400> 876
 Thr Leu Gly Ile Val Cys Pro Ile
 1 5

 <210> 877
 <211> 10
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock-protein binding motif to form hybrid antigen

 <400> 877
 Tyr Met Leu Asp Leu Gln Pro Glu Thr Thr
 1 5 10

 <210> 878
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock-protein binding motif to form hybrid antigen

 <400> 878
 Ala Leu Phe Asp Ile Glu Ser Lys Val Gly Ser Gly His Trp Asp Phe
 1 5 10 15
 Ala Trp Pro Trp
 20

 <210> 879
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock-protein binding motif to form hybrid antigen

 <400> 879
 Arg Gly Tyr Val Tyr Gln Gly Leu
 1 5

<210> 880
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 880
Asn Leu Leu Arg Leu Thr Gly Trp Gly Ser Gly Ser Ile Ile Asn Phe
1 5 10 15
Glu Lys Leu

<210> 881
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 881
Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Ser Ile Ile Asn
1 5 10 15
Phe Glu Lys Leu
20

<210> 882
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 882
Asn Leu Leu Arg Leu Thr Gly Trp Arg Lys Ser Ile Ile Asn Phe Glu
1 5 10 15
Lys Leu

<210> 883
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 883
Asn Leu Leu Arg Leu Thr Gly Trp Gly Ser Gly Arg Gly Tyr Val Tyr
1 5 10 15
Gln Gly Leu

<210> 884
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 884
Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Arg Gly Tyr Val
1 5 10 15
Tyr Gln Gly Leu
20

<210> 885
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 885
Asn Leu Leu Arg Leu Thr Gly Trp Arg Lys Arg Gly Tyr Val Tyr Gln
1 5 10 15
Gly Leu

<210> 886
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 886
Asn Leu Leu Arg Leu Thr Gly Trp Ala Lys Val Leu Ser Ile Ile Asn
1 5 10 15
Phe Glu Lys Leu
20

<210> 887
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 887
Asn Leu Leu Arg Leu Thr Gly Trp Gln Leu Lys Ser Ile Ile Asn Phe
1 5 10 15
Glu Lys Leu

<210> 888

<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 888
Asn Leu Leu Arg Leu Thr Gly Trp Phe Arg Ser Ile Ile Asn Phe Glu
1 5 10 15
Lys Leu

<210> 889
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 889
Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Ile Met Asp Gln
1 5 10 15
Val Pro Phe Ser Val
20

<210> 890
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 890
Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Tyr Met Asp Gly
1 5 10 15
Thr Met Ser Gln Val
20

<210> 891
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock-protein binding motif to form hybrid antigen

<400> 891
Phe Ala Pro Gly Asn Tyr Pro Ala Leu
1 5

<210> 892
<211> 21
<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 892

Asn	Leu	Leu	Arg	Leu	Thr	Gly	Trp	Phe	Phe	Arg	Lys	Phe	Ala	Pro	Gly
1				5					10					15	
Asn	Tyr	Pro	Ala	Leu											
				20											

<210> 893

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 893

Asn	Leu	Leu	Arg	Leu	Thr	Gly	Trp	Phe	Phe	Arg	Lys	Glu	Leu	Ala	Gly
1				5					10					15	
Ile	Gly	Ile	Leu	Thr	Val										
				20											

<210> 894

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 894

Asn	Leu	Leu	Arg	Leu	Thr	Gly	Trp	Phe	Phe	Arg	Lys	Ser	Leu	Leu	Met
1				5					10					15	
Trp	Ile	Thr	Gln	Val											
				20											

<210> 895

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 895

Asn	Leu	Leu	Arg	Leu	Thr	Gly	Trp	Phe	Phe	Arg	Lys	Ser	Val	Tyr	Asp
1				5					10					15	
Phe	Phe	Val	Trp	Leu											
				20											

<210> 896

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 896

Gly Leu Tyr Asp Gly Met Glu His Leu Gly Ser Gly Asn Leu Leu Arg
1 5 10 15
Leu Thr Gly Trp
20

<210> 897

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 897

Tyr Leu Glu Pro Gly Pro Val Thr Val Gly Ser Gly Asn Leu Leu Arg
1 5 10 15
Leu Thr Gly Trp
20

<210> 898

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 898

Lys Ala Ser Glu Lys Ile Phe Tyr Val Gly Ser Gly Asn Leu Leu Arg
1 5 10 15
Leu Thr Gly Trp
20

<210> 899

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 899

Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Ser Ser Trp Asp
1 5 10 15
Phe Ile Thr Val
20

<210> 900

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 900

Asn	Leu	Leu	Arg	Leu	Thr	Gly	Trp	Phe	Phe	Arg	Lys	Ser	Ile	Ile	Asn
1				5					10					15	
Phe	Glu	Lys	Leu	Phe	Phe	Arg	Lys	Arg	Gly	Tyr	Val	Tyr	Gly	Leu	
			20					25					30		

<210> 901

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 901

Asn	Leu	Leu	Arg	Leu	Thr	Gly	Trp	Phe	Phe	Arg	Lys	Arg	Gly	Tyr	Val
1				5					10					15	
Tyr	Gln	Gly	Leu	Phe	Phe	Arg	Lys	Ser	Ile	Ile	Asn	Phe	Glu	Lys	Leu
			20					25					30		

<210> 902

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 902

Asn	Leu	Leu	Arg	Leu	Thr	Gly	Trp	Phe	Phe	Arg	Lys	Ser	Ile	Ile	Asn
1				5					10					15	
Phe	Glu	Lys	Leu	Phe	Phe	Arg	Lys	Arg	Gly	Tyr	Val	Tyr	Gln	Gly	Leu
			20					25					30		

<210> 903

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 903

Asn	Leu	Leu	Arg	Leu	Thr	Gly	Trp	Phe	Phe	Arg	Lys	Arg	Gly	Tyr	Val
1				5					10					15	
Tyr	Gln	Gly	Leu	Phe	Phe	Arg	Lys	Ser	Ile	Ile	Asn	Phe	Glu	Lys	Leu
			20					25					30		

<210> 904

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock-protein binding motif to form hybrid antigen

<400> 904

Ile Ala Tyr Phe Tyr Pro Glu Leu
1 5

<210> 905

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 905

Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Ser Ile Ile Asn
1 5 10 15
Phe Glu Lys Leu Phe Phe Arg Lys Arg Gly Tyr Val Tyr Gln Gly Leu
20 25 30

<210> 906

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock-protein binding motif to form hybrid antigen

<400> 906

Arg Thr Phe Ser Phe Gln Leu Ile
1 5

<210> 907

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 907

Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Arg Thr Phe Ser
1 5 10 15
Phe Gln Leu Ile
20

<210> 908

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 908

Thr Glu Trp Thr Ser Ser Asn Val Met Glu Glu Arg Lys Ile Lys Val

1	5	10	15
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<210> 909
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 909
 Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Thr Glu Trp Thr
 1 5 10 15
 Ser Ser Asn Val Met Glu Glu Arg Lys Ile Lys Val
 20 25

<210> 910
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 910
 Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Asp Ala Pro Ile
 1 5 10 15
 Tyr Thr Asn Val
 20

<210> 911
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 911
 Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Ser Ser Trp Asp
 1 5 10 15
 Phe Ile Thr Val
 20

<210> 912
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 912
 Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Arg Thr Phe Ser
 1 5 10 15
 Phe Gln Leu Ile
 20

<210> 913
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 913
Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Ile Ala Tyr Phe
1 5 10 15
Tyr Pro Glu Leu
20

<210> 914
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock-protein binding motif to form hybrid antigen

<400> 914
Ser Ser Trp Asp Phe Ile Thr Val
1 5

<210> 915
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock-protein binding motif to form hybrid antigen

<400> 915
Asp Ala Pro Ile Tyr Thr Asn Val
1 5

<210> 916
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 916
Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser Ala
1 5 10 15
Ser His Leu

<210> 917
<211> 31

<212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 917
 Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Asn Asn Phe Thr
 1 5 10 15
 Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser Ala Ser His Leu
 20 25 30

 <210> 918
 <211> 13
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 918
 Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu
 1 5 10

 <210> 919
 <211> 31
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 919
 His Trp Asp Phe Ala Trp Pro Trp Asn Gly Ser Gly Asn Asn Phe Thr
 1 5 10 15
 Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser Ala Ser His Leu
 20 25 30

 <210> 920
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock-protein binding motif to form hybrid antigen

 <400> 920
 Ser Val Tyr Asp Phe Phe Val Trp Leu
 1 5

 <210> 921
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock-protein binding motif to form hybrid antigen

<400> 921
Val Ile Tyr Gln Tyr Met Asp Asp Leu
1 5

<210> 922
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 922
Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Ile Leu Lys Glu
1 5 10 15
Pro Val His Gly Val
20

<210> 923
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 923
Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Val Ile Tyr Gln
1 5 10 15
Tyr Met Asp Asp Leu
20

<210> 924
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 924
Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Ser Leu Tyr Asn
1 5 10 15
Thr Val Ala Thr Leu
20

<210> 925
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Hybrid antigen

<400> 925
Asn Leu Leu Arg Leu Thr Gly Trp Phe Phe Arg Lys Thr Pro Pro Ala
1 5 10 15

Tyr Arg Pro Pro Asn Ala Pro Ile Leu
20 25

<210> 926

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 926

Asn	Asn	Phe	Thr	Val	Ser	Phe	Trp	Leu	Arg	Val	Pro	Lys	Val	Ser	Ala
1				5				10						15	
Ser	His	Leu	Gly	Ser	Gly	Asn	Leu	Leu	Arg	Leu	Thr	Gly	Trp		
		20					25						30		